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Welcome to STN International! Enter x:x

LOGINID:SSSPTA1600RXA

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS 1   Web Page for STN Seminar Schedule – N. America
 NEWS 2 JAN 02   STN pricing information for 2008 now available
 NEWS 3 JAN 16   CAS patent coverage enhanced to include exemplified
                    prophetic substances
 NEWS 4 JAN 28   USPATFULL, USPAT2, and USPATOLD enhanced with new
                    custom IPC display formats
 NEWS 5 JAN 28   MARPAT searching enhanced
 NEWS 6 JAN 28   USGENE now provides USPTO sequence data within 3 days
                    of publication
 NEWS 7 JAN 28   TOXCENTER enhanced with reloaded MEDLINE segment
 NEWS 8 JAN 28   MEDLINE and LMEDLINE reloaded with enhancements
 NEWS 9 FEB 08   STN Express, Version 8.3, now available
 NEWS 10 FEB 20   PCI now available as a replacement to DPCI
 NEWS 11 FEB 25   IFIREF reloaded with enhancements
 NEWS 12 FEB 25   IMSPRODUCT reloaded with enhancements
 NEWS 13 FEB 29   WPINDEX/WPIDS/WPIX enhanced with ECLA and current
                    U.S. National Patent Classification
 NEWS 14 MAR 31   IFICDB, IFIPAT, and IFIUDB enhanced with new custom
                    IPC display formats
 NEWS 15 MAR 31   CAS REGISTRY enhanced with additional experimental
                    spectra
 NEWS 16 MAR 31   CA/CAplus and CASREACT patent number format for U.S.
                    applications updated
 NEWS 17 MAR 31   LPCI now available as a replacement to LDPCI
 NEWS 18 MAR 31   EMBASE, EMBAL, and LEMBASE reloaded with enhancements
 NEWS 19 APR 04   STN AnaVist, Version 1, to be discontinued
 NEWS 20 APR 15   WPIDS, WPINDEX, and WPIX enhanced with new
                    predefined hit display formats
 NEWS 21 APR 28   EMBASE Controlled Term thesaurus enhanced
 NEWS 22 APR 28   IMSRESEARCH reloaded with enhancements

 NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

 NEWS HOURS   STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN   Welcome Banner and News Items
 NEWS IPC8   For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
specific topic.

```
* * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:16:01 ON 30 APR 2008

=> fil reg
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                ENTRY        SESSION
FULL ESTIMATED COST                             0.21          0.21

FILE 'REGISTRY' ENTERED AT 12:16:16 ON 30 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   29 APR 2008  HIGHEST RN 1018438-06-6
DICTIONARY FILE UPDATES:  29 APR 2008  HIGHEST RN 1018438-06-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\QUERIES\10538452.str
```
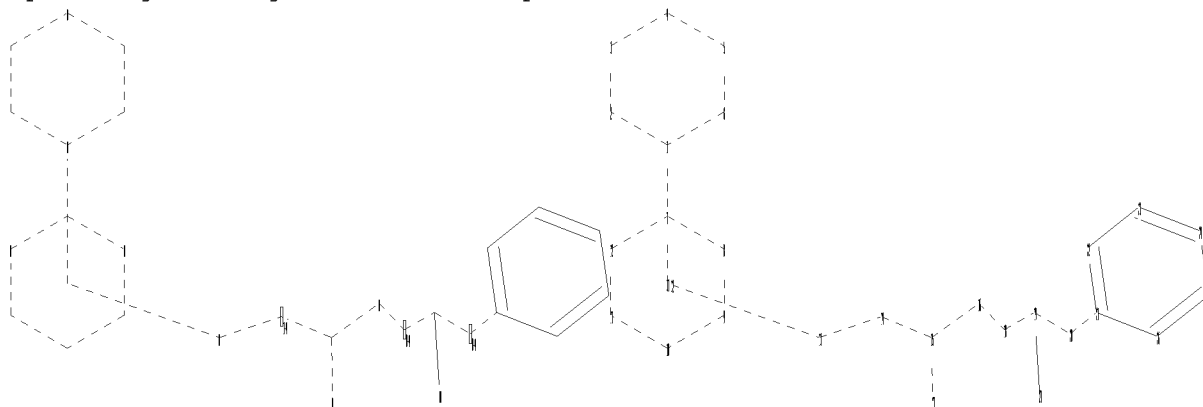


```
chain nodes :
13  14  15  16  17  18  19  20  27
ring nodes :
1  2  3  4  5  6  7  8  9  10  11  12  21  22  23  24  25  26
chain bonds :
13-14  14-15  15-16  15-17  16-18  18-19  19-20  19-27  20-21
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  7-12  7-8  8-9  9-10  10-11  11-12  21-22  21-26
22-23  23-24  24-25  25-26
```

exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-12 7-8 8-9 9-10 10-11 11-12 13-14 14-15
15-16 15-17 16-18 18-19 19-20 20-21
exact bonds :
19-27
normalized bonds :
21-22 21-26 22-23 23-24 24-25 25-26
isolated ring systems :
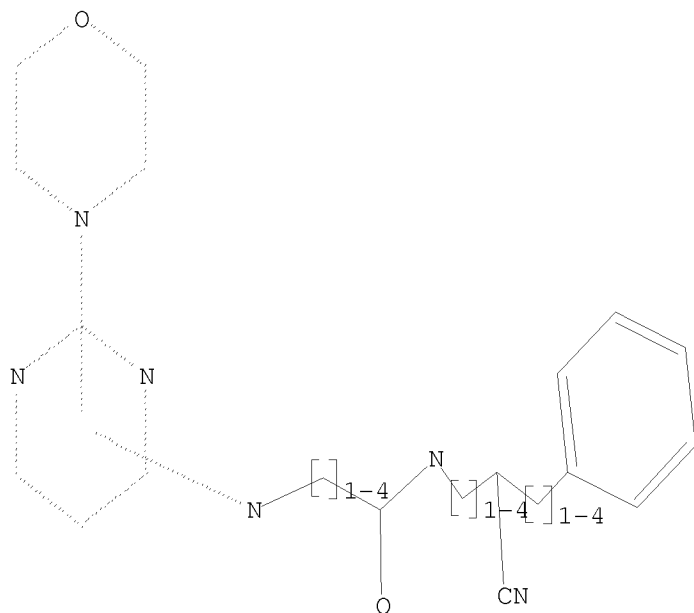containing 1 : 7 : 21 :

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS
18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS
26:CLASS 27:CLASS 31:CLASS 32:CLASS

L1   STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1   STR

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 12:18:06 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED –   0 TO ITERATE

100.0% PROCESSED   0 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**

```
PROJECTED ITERATIONS:              0 TO          0
PROJECTED ANSWERS:                 0 TO          0

L2              0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 12:18:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -         0 TO ITERATE

100.0% PROCESSED         0 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

L3              0 SEA SSS FUL L1

=>
Uploading C:\Program Files\Stnexp\Queries\QUERIES\10538452.str
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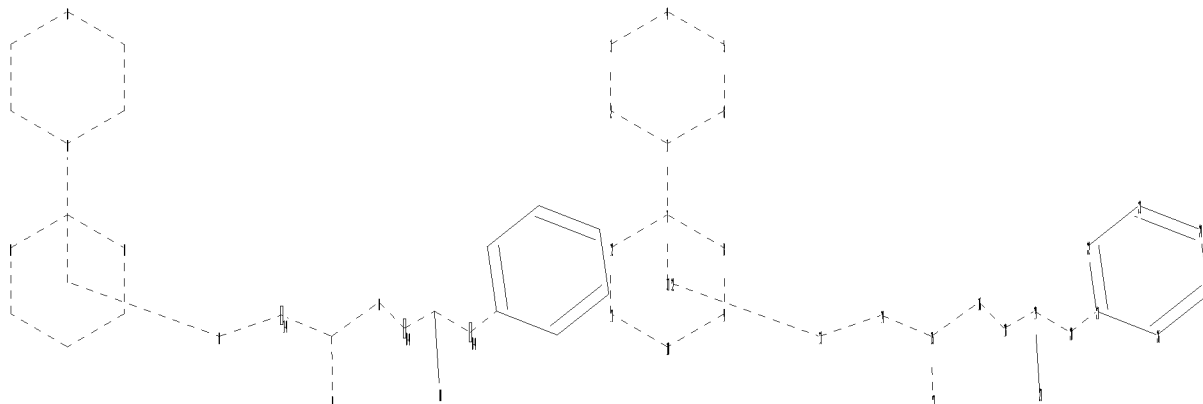


```
chain nodes :
13  14  15  16  17  18  19  20  27
ring nodes :
1  2  3  4  5  6  7  8  9  10  11  12  21  22  23  24  25  26
chain bonds :
13-14  14-15  15-16  15-17  16-18  18-19  19-20  19-27  20-21
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  7-12  7-8  8-9  9-10  10-11  11-12  21-22  21-26
22-23  23-24  24-25  25-26
exact/norm bonds :
1-2  1-6  2-3  3-4  4-5  5-6  7-12  7-8  8-9  9-10  10-11  11-12  13-14  14-15
15-16  15-17  16-18  18-19  19-20  20-21
exact bonds :
19-27
normalized bonds :
21-22  21-26  22-23  23-24  24-25  25-26
isolated ring systems :
containing 1 : 7 : 21 :


Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  9:CLASS
10:CLASS  11:CLASS  12:CLASS  13:CLASS  14:CLASS  15:CLASS  16:CLASS  17:CLASS
18:CLASS  19:CLASS  20:CLASS  21:CLASS  22:CLASS  23:CLASS  24:CLASS  25:CLASS
26:CLASS  27:CLASS  31:CLASS  32:CLASS
```
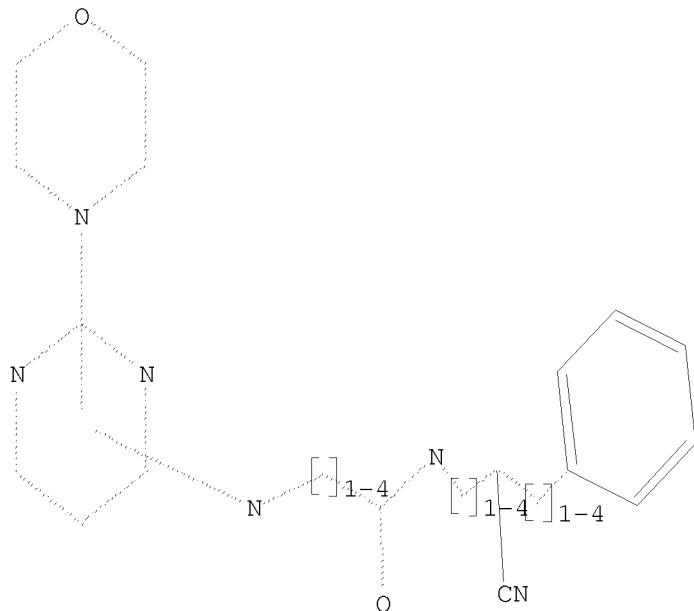
L4   STRUCTURE UPLOADED

=> d
L4 HAS NO ANSWERS
L4   STR

Structure attributes must be viewed using STN Express query preparation.

=> s l4
SAMPLE SEARCH INITIATED 12:19:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   0 TO ITERATE

100.0% PROCESSED   0 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 0 TO   0
PROJECTED ANSWERS: 0 TO   0

L5   0 SEA SSS SAM L4

=> s l4 full
FULL SEARCH INITIATED 12:19:08 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   0 TO ITERATE

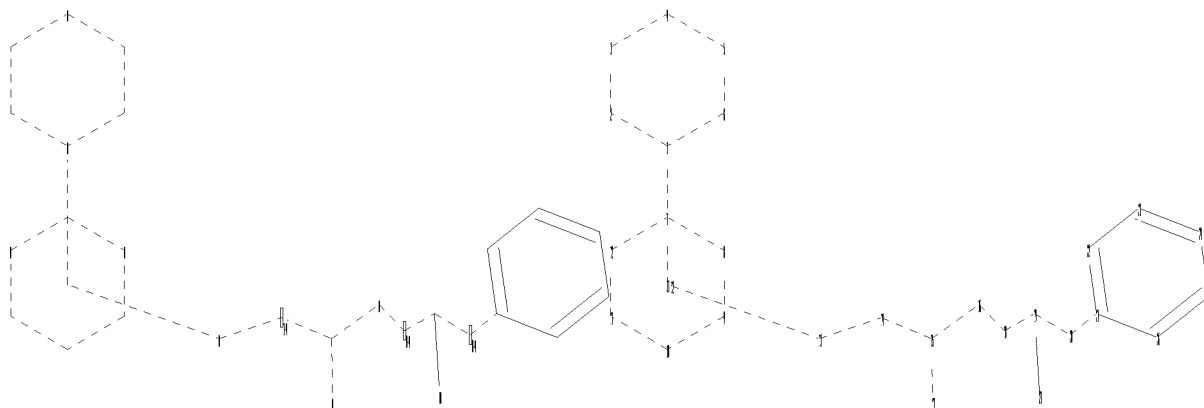100.0% PROCESSED   0 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

L6   0 SEA SSS FUL L4

=>
Uploading C:\Program Files\Stnexp\Queries\QUERIES\10538452.str

```
chain nodes :
13  14  15  16  17  18  19  20  27
ring nodes :
1  2  3  4  5  6  7  8  9  10  11  12  21  22  23  24  25  26
chain bonds :
13-14  14-15  15-16  15-17  16-18  18-19  19-20  19-27  20-21
ring bonds :
1-2  1-6  2-3  3-4  4-5  5-6  7-12  7-8  8-9  9-10  10-11  11-12  21-22  21-26
22-23  23-24  24-25  25-26
exact/norm bonds :
1-2  1-6  2-3  3-4  4-5  5-6  7-12  7-8  8-9  9-10  10-11  11-12  13-14  14-15
15-16  15-17  16-18  18-19  19-20  20-21
exact bonds :
19-27
normalized bonds :
21-22  21-26  22-23  23-24  24-25  25-26
isolated ring systems :
containing 1 : 7 : 21 :


Match level :
1:CLASS   2:CLASS   3:CLASS   4:CLASS   5:CLASS   6:CLASS   7:CLASS   8:CLASS   9:CLASS
10:CLASS  11:CLASS  12:CLASS  13:CLASS  14:CLASS  15:CLASS  16:CLASS  17:CLASS
18:CLASS  19:CLASS  20:CLASS  21:CLASS  22:CLASS  23:CLASS  24:CLASS  25:CLASS
26:CLASS  27:CLASS  31:CLASS  32:CLASS



L7        STRUCTURE UPLOADED

=> d
L7 HAS NO ANSWERS
L7                STR
```
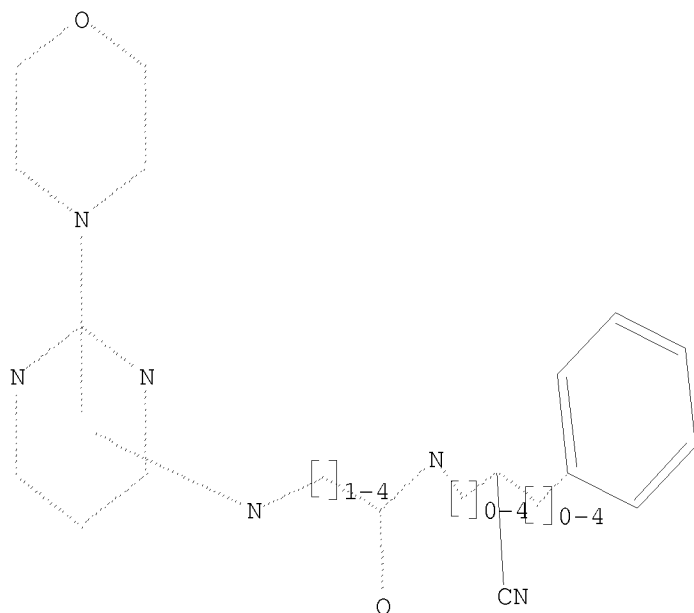
O

N

N   N

N

N

$[\quad]_{1-4}$ $[\quad]_{0-4}$ $[\quad]_{0-4}$

O

CN

Structure attributes must be viewed using STN Express query preparation.

=> s l7
SAMPLE SEARCH INITIATED 12:20:10 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   2 TO ITERATE

100.0% PROCESSED   2 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 2 TO   124
PROJECTED ANSWERS: 0 TO   0

L8   0 SEA SSS SAM L7

=> s l7 full
FULL SEARCH INITIATED 12:20:13 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   31 TO ITERATE

100.0% PROCESSED   31 ITERATIONS   3 ANSWERS
SEARCH TIME: 00.00.01

L9   3 SEA SSS FUL L7

=> s l9 and caplus/lc
     56580162 CAPLUS/LC
L10   3 L9 AND CAPLUS/LC

=> fil caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                    ENTRY   SESSION
FULL ESTIMATED COST   542.07   542.28

FILE 'CAPLUS' ENTERED AT 12:20:22 ON 30 APR 2008

FILE COVERS 1907 - 30 Apr 2008 VOL 148 ISS 18
FILE LAST UPDATED: 29 Apr 2008 (20080429/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
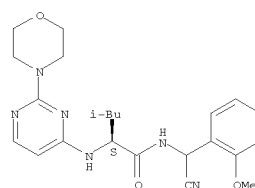They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l10
L11   1 L10

=> d ibib abs hitstr

ACCESSION NUMBER: 2004:534183 CAPLUS
DOCUMENT NUMBER: 141:89367
TITLE: Preparation of amino acid derivatives as cathepsin
                        cysteine protease inhibitors
INVENTOR(S):   Mcinally, Judith; Pairaudeau, Garry; Patel, Anil;
                        Thom, Stephen
PATENT ASSIGNEE(S):   Astrazeneca Ab, Swed.
SOURCE: PCT Int. Appl., 34 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

        PATENT NO.   KIND   DATE   APPLICATION NO.   DATE
        --------------   ----   --------   -------------------   --------
        WO 2004054987   A1   20040701   WO 2003-SE1931   20031211
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
              CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
              GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
              LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO,
              NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
              TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
          RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
              BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
              ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
              TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
        TG
        AU 2003303076   A1   20040709   AU 2003-303076   20031211
        EP 1572667   A1   20050914   EP 2003-813325   20031211
        EP 1572667   B1   20070509
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
        JP 2006514948   T   20060518   JP 2004-560214   20031211
        AT 361914   T   20070615   AT 2003-813325   20031211
        ES 2285273   T3   20071116   ES 2003-813325   20031211
        US 20060111364   A1   20060525   US 2005-538452   20060610
PRIORITY APPLN. INFO.:   SE 2002-3712   A 20021213

                                              WO 2003-SE1931   W 20031211

OTHER SOURCE(S):   MARPAT 141:89367
AB   The invention relates to compds. R1R2N-Het-NR3CR4R5CONR6CR7R8CN [R1 is H,
        alkyl or cycloalkyl; R2 is aryl, heteroaryl, alkyl-R9, CO(alkyl)R9 or
        SO2(alkyl)R9, where R9 is aryl or heteroaryl; or R1R2N is a 4 to
        7-membered saturated ring optionally containing a carbonyl group, O, S
or N atom
        and optionally substituted; Het is a (un)substituted heteroaryl ring
        chosen from pyridine, pyrimidine, pyrazine, pyridazine or triazine; R3,
        R5, R6, R7 are H, alkyl or cycloalkyl; R4 is H, (un)substituted alkyl,
        cycloalkyl, arylalkyl or heteroarylalkyl; R8 is H, aryl, heteroaryl of
        (un)substituted alkyl] or their pharmaceutically-acceptable salts for use
        in treating diseases associated with cysteine protease activity,
particular
        cathepsin S. Thus, N-(2-morpholino-4-pyrimidinyl)-L-leucine
        cyano(2-methoxyphenyl)methylamide was prepared by amidation of
Boc-L-Leu-OH
        (Boc = tert-butoxycarbonyl) with 2-MeOC6H4CH(NH2)CN, followed by
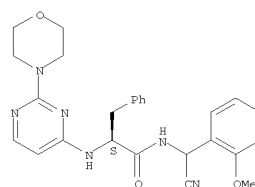   deprotection with formic acid and reaction with 2,4-difluoropyrimidine
and

        morpholine.
IT   714216-17-8P 714216-20-3P 714216-21-4P
        RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
        (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
        (Uses)
          (preparation of amino acid derivs. as cathepsin cysteine protease
          inhibitors)
RN   714216-17-8 CAPLUS
CN   Pentanamide, N-[cyano(2-methoxyphenyl)methyl]-4-methyl-2-[[2-(4-
        morpholinyl)-4-pyrimidinyl]amino]-, (2S)- (CA INDEX NAME)

Absolute stereochemistry.

RN   714216-20-3 CAPLUS
CN   Benzenepropanamide, N-[cyano(2-methoxyphenyl)methyl]-α-[[2-(4-
        morpholinyl)-4-pyrimidinyl]amino]-, (αS)- (CA INDEX NAME)
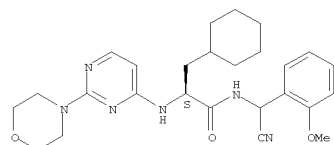
Absolute stereochemistry.

RN   714216-21-4 CAPLUS
CN   Cyclohexanepropanamide, N-[cyano(2-methoxyphenyl)methyl]-α-[[2-(4-
        morpholinyl)-4-pyrimidinyl]amino]-, (αS)- (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: 2   THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

```
=> log y
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 5.93     548.21

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                   ENTRY    SESSION
CA SUBSCRIBER PRICE                                -0.80      -0.80

STN INTERNATIONAL LOGOFF AT 12:20:43 ON 30 APR 2008
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